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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/612,700	07/10/2000	Takaaki Suga	FUJI 17.533	9112

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EXAMINER

RYMAN, DANIEL J

ART UNIT	PAPER NUMBER
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2665

DATE MAILED: 05/10/2004

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/612,700	Applicant(s) SUGA, TAKAAKI	
	Examiner Daniel J. Ryman	Art Unit 2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. During the correction of the informality seen on page 2, line 8 of the disclosure, Applicant created another informality. Specifically, Applicant changed "error" to "erros" when Applicant should have changed "error" to "errors". Therefore, Examiner has maintains the objection to the specification.
2. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Specification

3. The disclosure is objected to because of the following informalities: On page 2, line 8 "creates erros, and" should be "creates errors, and".
4. Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 2, 7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langley (USPN 6,252,855) in view of Webster (USPN 5,307,351).
7. Regarding claims 1 and 7, Langley discloses a method of changing a fragment size of data packets in a router and a router in which the fragment size of data packets is changed where a data packet is divided into the data packets having the fragment size, and are transmitted to a

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network along with audio packets (col. 1, line 22-col. 2, line 15 and col. 2, line 63-col. 3, line 25), comprising the steps of and means for: acquiring, in the router at a control unit, a parameter indicative of whether proper audio quality is maintained through transmission of the audio packets (acceptable delay) (col. 1, line 62-col. 3, line 15; col. 2, line 63-col. 3, line 25; and col. 4, lines 8-54); and changing the fragment size of the data packets, in a fragmentation unit, in response to the acquired parameter (col. 2, line 63-col. 3, line 25 and col. 4, lines 8-54). Langley does not expressly disclose that changing the fragment size of the data packets occurs dynamically. Webster teaches, in a system for adjusting the frame length according to a determined degree of impairment, dynamically changing the fragment size of the data packets in order to adjust the size of the fragment according to current network conditions (col. 6, lines 19-47, esp. col. 6, lines 25-28). It would have been obvious to one of ordinary skill in the art at the time of the invention to dynamically change the fragment size of the data packets in order to adjust the size of the fragment according to current network conditions.

8. Regarding claims 2 and 8, referring to claims 1 and 7, Langley in view of Webster discloses acquiring an acceptable delay and determining the frame size based upon the acceptable delay, where acceptable delay takes into account any network delay (Langley: col. 4, lines 14-15). Langley in view of Webster also discloses that the wait time in a router impacts the delay of a packet (Langley: col. 1, line 62-col. 3, line 15). Thus, it would have been obvious to one of ordinary skill in the art at the time of the invention to have the acquiring include measuring, as a parameter, a wait time for which the audio packets wait in the router before being transmitted to the network since the wait time impacts the delay of the packet.

9. Claims 3 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langley (USPN 6,252,855) in view of Webster (USPN 5,307,351) as applied to claims 1 and 7 above, and further in view of Shaffer et al (USPN 6,370,163).

10. Regarding claims 3 and 9, referring to claims 1 and 7, Langley in view of Webster discloses acquiring an acceptable delay and determining the frame size based upon the acceptable delay, where acceptable delay takes into account network delay (Langley: col. 4, lines 14-15). Langley in view of Webster does not disclose that acquiring includes measuring, as a parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network. Shaffer discloses, in a system for adjusting the size of packets according to delay, measuring network delay using packets (col. 2, lines 46-55), where Examiner takes official notice that hello packets are well known in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to measure, as said parameter, a delay time of the network by transmitting a hello packet to and receiving the hello packet from the network in order to determine the network delay of the system.

11. Claims 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langley (USPN 6,252,855) in view of Webster (USPN 5,307,351) as applied to claims 1 and 7 above, and further in view of Ganson et al (USPN 5,579,301).

12. Regarding claims 4 and 10, referring to claims 1 and 7, Langley in view of Webster discloses acquiring an acceptable delay and determining the frame size based upon the acceptable delay, where acceptable delay takes into account network delay (Langley: col. 4, lines 14-15). Langley in view of Webster does not disclose that acquiring includes counting, as a parameter, a number that indicates how many times a congestion notice is received from the

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network during a predetermined time period to indicate congestion of the network. Ganson teaches, in a system for avoiding delays of voice messages, using congestion notices to indicate congestion in order to allow actions to be taken to prevent any excessive delays (col. 1, line 23-col. 2, line 6 and col. 3, lines 26-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to count, as said parameter, a number that indicates how many times a congestion notice is received from the network during a predetermined time period to indicate congestion of the network such that network delays can be determined and thus delays can be avoided.

13. Claims 5, 6, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langley (USPN 6,252,855) in view of Webster (USPN 5,307,351) as applied to claims 1 and 7 above, and further in view of Hluchyj et al (USPN 5,115,429).

14. Regarding claims 5 and 11, referring to claims 1 and 7, Langley in view of Webster discloses acquiring an acceptable delay and determining the frame size based upon the acceptable delay, where acceptable delay takes into account network delay (Langley: col. 4, lines 14-15). Langley in view of Webster does not disclose that acquiring includes acquiring, as said parameter, a number of audio calls from an apparatus that counts the number of audio calls. Hluchyj teaches, in a system for minimizing traffic congestion, using the number of calls measured at an apparatus (nodal processor) in order to declare congestions (col. 7, lines 50-57), where Examiner takes official notice that congestion impacts network delays. It would have been obvious to one of ordinary skill in the art at the time of the invention to acquire, as said parameter, a number of audio calls from an apparatus that counts the number of audio calls in order to determine the amount of congestion and thus the network delay.

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15. Regarding claims 6 and 12, referring to claims 1 and 7, Langley in view of Webster discloses acquiring an acceptable delay and determining the frame size based upon the acceptable delay, where acceptable delay takes into account network delay (Langley: col. 4, lines 14-15). Langley in view of Webster does not disclose that acquiring includes acquiring, as said parameter, a number of audio calls based on signaling information. Hluchyj teaches, in a system for minimizing traffic congestion, using the number of calls measured at an apparatus (nodal processor) in order to declare congestions (col. 7, lines 50-57), where Examiner takes official notice that congestion impacts network delays. Langley in view of Webster in further view of Hluchyj discloses acquiring, as said parameter, a number of audio calls based on signaling information since the number of calls measured by an apparatus (Hluchyj) would be sent to another unit, as signaling information, to calculate the maximum frame size (Langley). It would have been obvious to one of ordinary skill in the art at the time of the invention to acquire, as said parameter, a number of audio calls based on signaling information in order to determine the amount of congestion and thus the network delay.

Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Organ (USPN 5,781,554) see entire document which pertains to varying the size of data frames in order to control delay in the network. Blasbalg (USPN 4,771,391) see entire document which discloses varying the size of data frames in response to network impairments. Skemer et al (USPN 6,570,849) see entire document, which is not valid prior art, which pertains to a dynamic MTU algorithm.

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

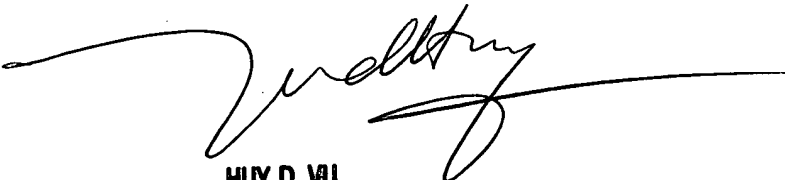
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (703)305-6970. The examiner can normally be reached on Mon.-Fri. 7:00-5:00 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703)308-6602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Ryman
Examiner
Art Unit 2665

²⁰¹²
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